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The Role of Macrophage Induced Factors in Cancer Immunity.

The aims of this project are:

(1) To purify and identify the factors in supernatants of mixed cultures of macrophages and lymphocytes which suppress the activation and proliferation of thymus derived lymphocytes (T cells).

(2) To determine by which cell(s) the suppressing factors are produced.

(3) To compare these factors with those secreted by several tumor cell lines.

(4) To determine whether the suppressor factors act at a particular point in the cell cycle.

The long-term goal of the project is to understand how the activation and function of cytotoxic T-lymphocytes are controlled. The investigators will begin with an attempt to understand suppression. Then they can determine whether activation is a reversal of suppression and perhaps apply this knowledge to the indication of immunity to cancer cells.

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